

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



549488

(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/082624 A2

- (51) International Patent Classification⁷: **A61K**
- (21) International Application Number:
PCT/US2004/008056
- (22) International Filing Date: 17 March 2004 (17.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/455,405 17 March 2003 (17.03.2003) US
- (71) Applicant (for all designated States except US): **NEURO-HEALING PHARMACEUTICALS, INC.** [US/US]; 18 Dean Road, Suite #2, Brookline, MA 02445 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **KATZMAN, Daniel, E.** [AR/US]; 18 Dean Road, Suite #2, Brookline, MA 02445 (US). **ELKAN, Gamzu, R.** [US/US]; 33 Nobscot Road, Newton, MA 02159 (US). **FARBER, Neal, M.** [US/US]; 1860 Beacon Street, Waban, MA 02468 (US). **FRIDMAN, Esteban, A.** [AR/AR]; Ortega y Gasset 1963, 4A, Capital Federal (AR).
- (74) Agents: **YANKWICH, Leon, R.** et al.; Yankwich & Associates, 201 Broadway, Cambridge, MA 02139 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Declarations under Rule 4.17:**
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
 - of inventorship (Rule 4.17(iv)) for US only
- Published:**
- without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MODAFINIL-BASED NEUROREHABILITATION OF IMPAIRED NEUROLOGICAL FUNCTION ASSOCIATED WITH INJURY

(57) Abstract: The invention provides methods of treating an impaired neurological function associated with brain injury in an individual comprising administering to the individual an effective amount of modafinil. The use of modafinil, especially in conjunction with a neurorehabilitation program, is effective to improve or restore one or more neurological functions that were impaired due to brain injury in an individual.

WO 2004/082624 A2